

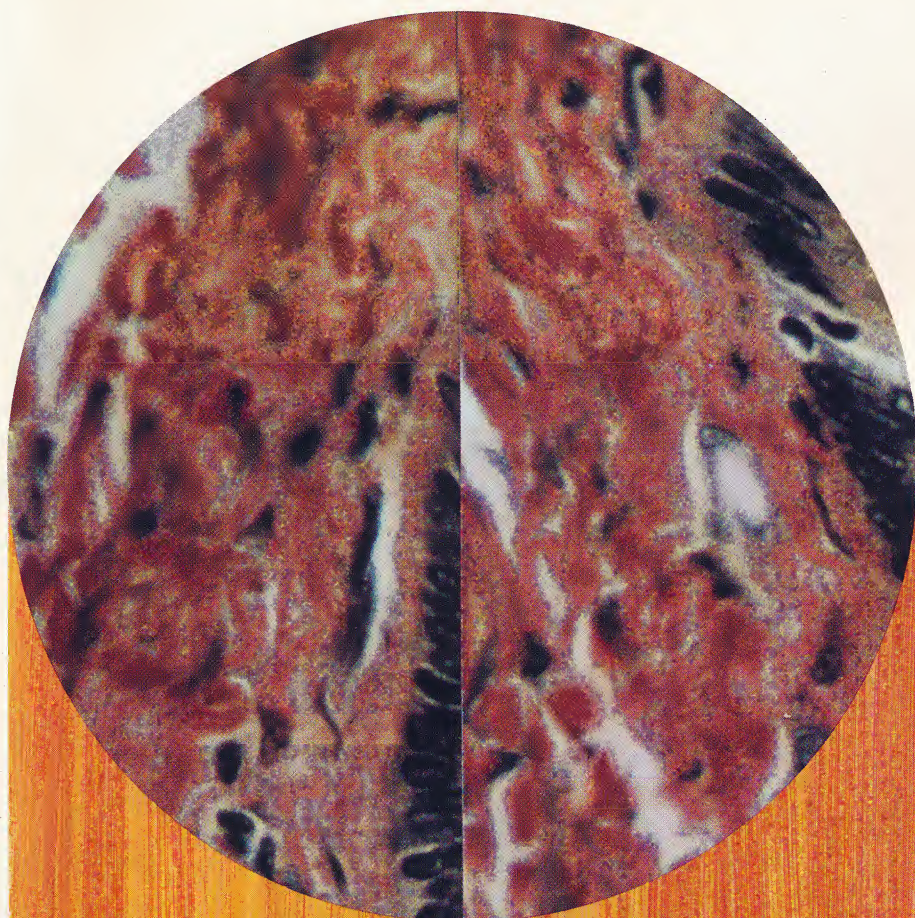
AO DUO-STAR

**COMPARISON
MICROSCOPE**

For RESEARCH
in PATHOLOGY
CYTOLOGY
HEMATOLOGY
HISTO-CHEMISTRY

For QUALITY CONTROL
in CHEMISTRY
TEXTILES
FOODSTUFFS
PAPER





Critical performance in split field examination

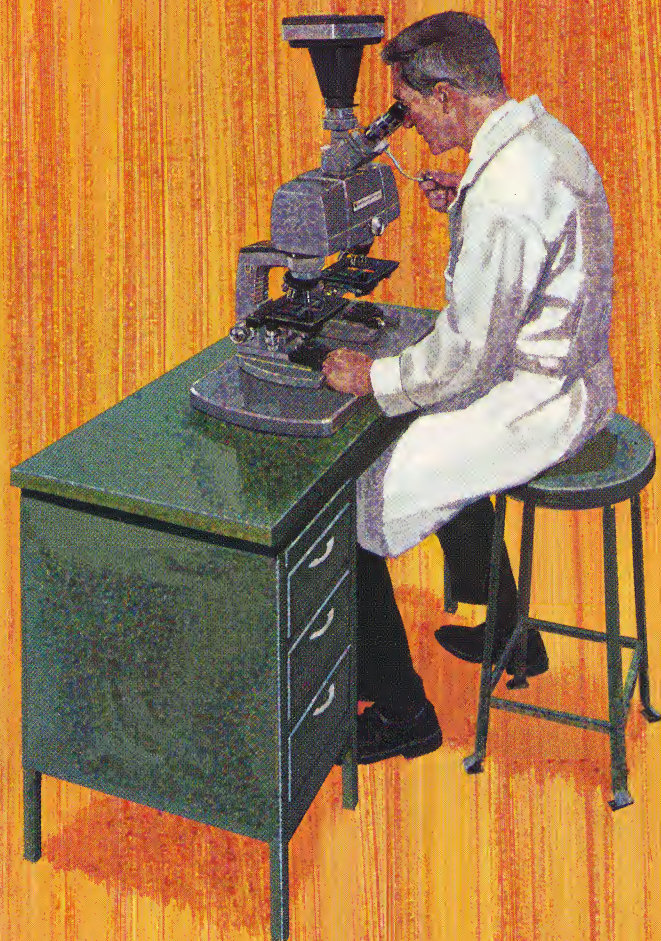
with binocular visual system
infinity-corrected optics
erect images
wide, flat fields

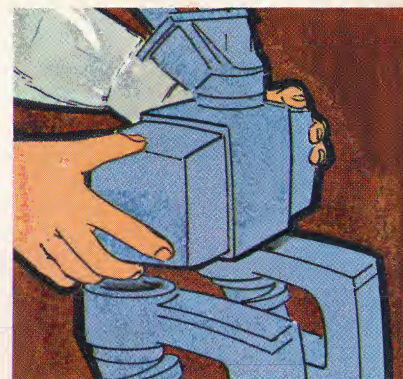
The Duo-Star Comparison Microscope sets a new standard of excellence in split field examination. It offers optical performance necessary for the most discriminating microscopist. Its wide versatility is geared to virtually all sciences where data must be obtained by comparison techniques.

TWO FINELY BALANCED OPTICAL SYSTEMS

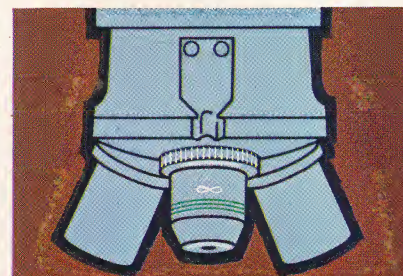
A bridge directly connects two AO Series 10 MICROSTAR Microscopes. The optical system is corrected by multi-compensating lenses which modify optical path design so that the performance characteristics are the same as if one microscope were used. Combining two microscopes into an integrated unit performing as one instrument is unique, since this is accomplished without *any* compromise of image quality. This is possible because of the many design factors exclusive to the Microstar Microscope . . . finely balanced eyepieces, compensating telescopic lens, and infinity-corrected flat-field objectives.

Images are erect, with superior color correction and high resolution at all magnifications.

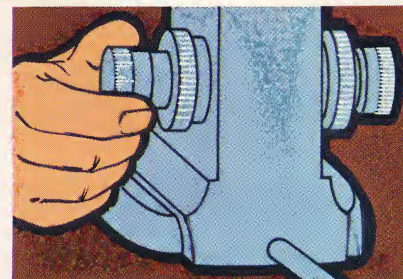




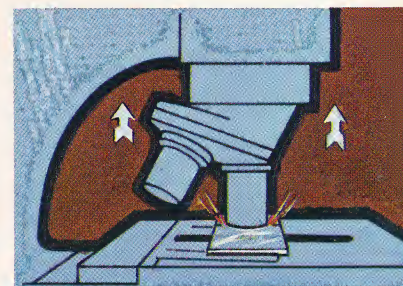
The Duo-Star Bridge Assembly is easily installed and removed.



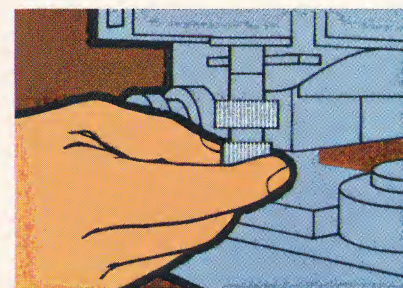
Infinity-corrected optical system provides true flatness of field, larger fields of view in sharp focus.



Dual, coaxial coarse and fine focusing ... low positioned, comfortable to use.



Focusable, gravity-loaded nose-piece eliminates slide and objective damage.



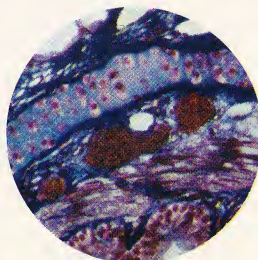
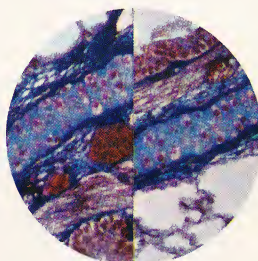
Fixed stage stability ... convenient "out-board" below-stage coaxial controls.

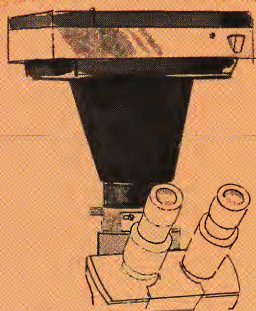
Each of the microscopes is equipped with an efficient in-base illuminator providing essentially Koehler illumination. Intensity is controlled by two 5-step transformers. Since the illumination system is matched, critical uniformity is maintained for each field.

The bridge of the instrument is easily removed so either microscope can be used separately without modification.

The Duo-Star Comparison Microscope accommodates the full range of standard Microstar accessories—objectives, eyepieces, stages and substage equipment. In addition, photomicrographic cameras, polarizing accessories and phase equipment can be readily utilized, which makes the potential of the instrument virtually limitless.

A movable dividing line separates the two fields and can be transversed so that equal or unequal portions of the two specimens may be compared side by side. Moving the dividing line to its extremities permits either field to be seen separately.





photomicrographic cameras:

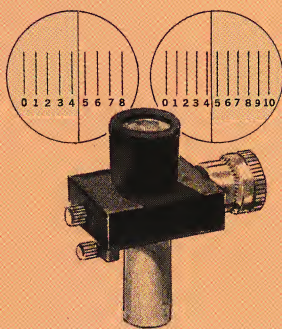
The single tube of the trinocular body accepts three popular photomicrographic camera backs—35mm, $3\frac{1}{4}'' \times 4\frac{1}{4}''$ film pack Polaroid® and $4'' \times 5''$ for cut film or Polaroid #500* accepting individual $4'' \times 5''$ Polaroid film packets. Since visual and photographic systems are parfocal, no additional telescope is needed. Field of view is photographed exactly as seen through special view finder eyepiece.

*Available from most photographic suppliers.



viewing screen:

The single tube will also accommodate a viewing screen which can be used successfully at most magnifications. Its generous six-inch screen is backed by a Fresnel lens which directs all of the light to the viewer. This is an indispensable aid in teaching situations.



filar micrometer eyepiece:

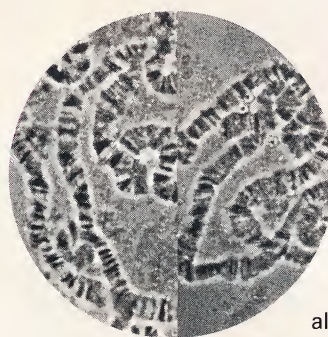
The new Filar Micrometer Eyepiece, with either English or Metric Scales, offers the advantages of speed and simplicity. Compensating lens allows calibration adjustment for rational intervals.



Polarizing Accessories

The Duo-Star Comparison Microscope may be easily fitted with polarizing accessories—essential to effective studies of birefringent materials in countless industrial applications. Special rotatable polarizers, each with swing-out Polaroid polarizing element, fit in light wells of in-base illuminators. These are used in conjunction with two turret assemblies with analyzers which are affixed to underside of bridge for each microscope.

Since unpolarized light is readily obtained by rotating turrets to zero, the turret assemblies may remain permanently installed.



Phase

Comparative values afforded by phase microscopy for unstained living specimens are of tremendous advantage in many fields of investigation. Phase accessories are easily installed and aligned on the instrument, essentially in the same manner as on an individual microscope.

There is a comprehensive selection of infinity-corrected phase objectives—Dark Contrast and Bright Contrast in powers of 10X, 20X, 45X and 100X; B-Minus in 100X. Phase turret condensers accommodating annular diaphragms, as well as single phase condensers, are available.

Basic Instrument Dimensions

Height— $23\frac{1}{2}''$
 Bridge— $12\frac{1}{4}'' \times 5\frac{1}{4}'' \times 4\frac{1}{4}''$
 Interpupillary Distance—54mm-74mm
 Distance Between Optical Axes— $8\frac{3}{4}''$
 Base— $22'' \times 12\frac{1}{2}''$

The specifications of a typical instrument are listed below.

No. K1567A Duo-Star Comparison Microscope

Instrument includes: Two No. 10 MICROSTAR Microscopes, with two sets of four objectives (4X, 10X, 45X, 100X); comparison bridge and base; trinocular body; pair 10X Wide Field eyepieces; two ungraduated mechanical stages; complete sub-stage assemblies with N.A. 1.25 Abbe condensers, in-base illuminators. Magnification range, 40X-1000X.

Additional models and accessories are available. Just write us your requirements. *Whatever instrument you choose, you can be certain that it is the finest comparison microscope on the market today.*

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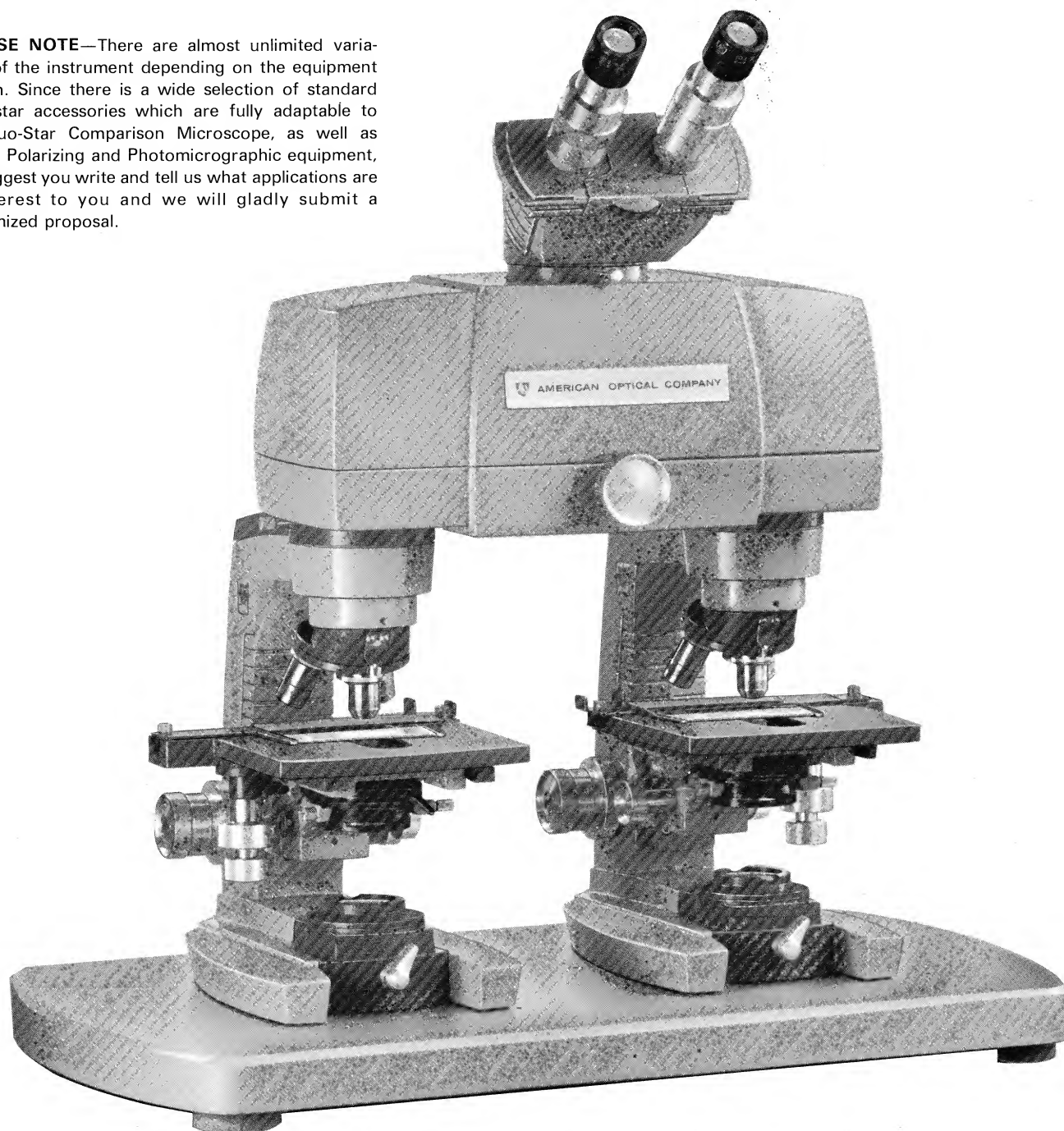
AMERICAN OPTICAL COMPANY
 INSTRUMENT DIVISION • BUFFALO, NEW YORK 14215

AO DUO-STAR COMPARISON MICROSCOPE

A typical Duo-Star Microscope for Bright Field work consists of the following equipment:

Cat. No. K1567A—Two No. 10 MICROSTAR Microscopes, with two sets of four objectives (4X, 10X, 45X, 100X); comparison bridge and base; trinocular body; pair of 10X Wide Field eyepieces; two ungraduated mechanical stages; complete substage assemblies with N.A. 1.25 Abbe Condensers, in-base illuminators. Magnification range 40X-1000X. \$3176.00

PLEASE NOTE—There are almost unlimited variations of the instrument depending on the equipment chosen. Since there is a wide selection of standard Microstar accessories which are fully adaptable to the Duo-Star Comparison Microscope, as well as Phase, Polarizing and Photomicrographic equipment, we suggest you write and tell us what applications are of interest to you and we will gladly submit a customized proposal.



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Poughkeepsie, N.Y. 12603

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